This course was a joint effort of the U.S. Environmental Protection Agency's Office of Pollution Prevention and Toxics, in partnership with the U.S. Department of Housing and Urban Development's Office of Healthy Homes and Lead Hazard Control. The course was developed by ICF Consulting under contract with EPA. Special thanks to the Environmental Management Institute for their contribution to the hands-on exercises.

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### A Note to Instructors on How to Use This Curriculum

### Notes to Instructors on How to Use This Curriculum

This course was developed by the U.S Environmental Protection Agency (EPA), in collaboration with the U.S. Department of Housing and Urban Development (HUD) to train renovation, remodeling, and painting contractors how to work safely in housing with lead-based paint.

**The audience.** The audience for this course includes renovators, remodelers, painters, and maintenance personnel. They may be taking the course to enhance their credentials as private contractors or to satisfy HUD requirements for interim controls training in Federally assisted housing. As the trainer, you will want to tailor the course to highlight information and exercises and best meet the needs of your audience.

**The curriculum and schedule.** The curriculum consists of an Introduction and five instructional modules. Each of the modules includes options for interactive exercises. The timing of the course will depend largely on the choices the trainer makes about activities. A proposed course schedule for a one-day delivery is provided below. The course can also be delivered in several shorter sessions.

Overview of Proposed Schedule		
Registration		8:00 - 8:30
Introduction	30 minute	8:30 - 9:00
	lecture/discussion	
Module 1: Why Should I Be Concerned About	30 minute exercise	9:00 – 10:00
Lead-Contaminated Dust?	30 minute lecture	
Break	15 minutes	10:00 – 10:15
Module 2: Set Up Your Workspace to Contain	30 minute lecture	10:15 – 11:15
Lead Dust	30 minute exercise	
Lunch	1 hour	11:15 – 12:15
Module 3: Safe Work Practices	30 minute lecture	12:15 – 1:15
	30 minute exercise	
Break	15 minutes	1:15 – 1:30
Module 4: Clean-up and Check Your Work	30 minute lecture	1:30 – 2:30
	30 minute exercise	
Module 5: Planning the Job	30 minute exercise	2:30 - 3:00
Additional Activities (E.g., review and additional	30 minutes	3:00 - 3:30
exercises – see the Lesson Plans provided in this		
section.)		
Test	1 hour	3:30 – 4:30

**Preparing for the course.** Read the course materials in advance of the course. While the lesson plans and slides outline a straightforward and directive approach to teaching this course, you will have some decisions to make and some materials to prepare. Specifically:

Know your audience. If you are delivering this course to private contractors consider their specific needs; for example, are they primarily painters or renovators? Pick examples and structure exercises around activities that are familiar to them. If you are delivering this course for a HUD audience, you must cover the HUD requirements (highlighted within the text and summarized in Appendices 1 and 2) and administer the test (see Course Materials for more guidance on the test.)

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### A Note to Instructors on How to Use This Curriculum

- Know your training facility. When training in your own facility, you have more control over
  your environment and generally have access to many more supplies, tools, and equipment
  than when you are training in a hotel room or community space. As you make decisions
  about the types of exercises you plan to do during the training, consider your training
  facility, the space and tools available, and plan accordingly.
- <u>Choose the activities</u>. This course offers many options for activities. Modules 2, 3, and 4 include hands-on exercises that are highly encouraged to reinforce learning of specific skills. However, based on your audience and training facility, you may not have the flexibility to perform these activities. The course offers alternative paper-based exercises in Appendix 7.
- Plan your schedule. The lesson plans provided in this section illustrate different ways to organize the course. While the hands-on exercises are presented as integral parts of Modules 2, 3, and 4, (as shown in Lesson Plan #1), they can also be delivered as one single hands-on module at the end of the course (as shown in Lesson Plan #2). As you plan your schedule, consider how to time your breaks and activities appropriately depending on whether your course is scheduled for one full day, two half-day or several evening sessions. As you to plan your time, you should not substantively alter the time allotted to cover specific subjects, (e.g., the content of Module 2: Setting up the Worksite should receive 60 minutes of instructional time, regardless of whether the job set-up component of the hands-on exercise is delivered during the module or with the other hands-on components at the end of the course.)
- Administering the test. This test reinforces participant learning and helps evaluate their understanding. If your class includes participants who will be working in Federally assisted properties, they will need documentation of their results. Providing this document to all other participants is also recommended. See the Course Materials section below for guidance on how to obtain a copy of the test.
- Gather all the materials necessary. A list of recommended supplies and tools is provided in this section, for your convenience. Make sure you have all the materials necessary to perform the activities and demonstrations you have planned.

**Organization of the course.** The trainer has a number of choices to make when planning the course presentation. He/she can use the hands-on practice activities that are written into the module or replace them with paper-based exercises that are provided in Appendix 7. The trainer also has the option to move parts of the course around. For example, the hands-on activities in Modules 2, 3, and 4 can be consolidated into one longer hands-on module and delivered toward the end of the course. These choices are highlighted in the lesson plans provided at the end of this section. The lesson plans include:

- <u>Lesson Plan #1: Hands-On Activities Included in Each Module.</u> The Instructor and Student Manuals follow this lesson plan. This plan includes hands-on exercises and demonstrations in most modules. No paper-based exercises are used.
- <u>Lesson Plan #2: Hands-On Activities Combined into One Unit.</u> This lesson plan combines the hands on activities from Modules 2, 3, and 4 into one longer hands-on unit that can be delivered toward the end of the course. It also includes the use of paper-based exercises if time allows.

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### A Note to Instructors on How to Use This Curriculum

• <u>Lesson Plan #3:</u> Paper-Based Exercises Only. If the instructor chooses to use only the paper-based exercises for Modules 2 and 3 and no hands-on training in Modules 2, 3, and 4, this lesson plan is appropriate.

Note: These lesson plans are available for reference purposes only. The trainer is free to create his/her own lesson plan that combines the various options as he/she sees fit, as long as the content and course length are not substantively altered.

**Course Materials.** The training materials include Student Manuals, an Instructor Manual, overhead slides, toolkits, and an optional test, as described below.

Course Materials		
Student Manual	Each student should receive a printed copy of the student manual. The student manual includes pictures of all overhead slides used in the course and explanatory notes. The student manual also has appendices, which include optional exercises and a copy of the Lead Paint Safety: A Field Guide for Painting, Home Maintenance and Renovation Work.*	
Instructor Manual	The instructor manual includes all the materials from the Student Manual and notes for trainers. The right-hand page shows the slide and notes for the student manual while the left-hand page has instructor's notes for that slide. The Instructor Manual also includes answers to the exercises.	
Overhead Slides	The trainer should have overhead slides, electronically or on transparencies. The slides are available in PowerPoint and can be copied onto transparencies if desired.	
Toolkits	The instructor is responsible for creating four toolkits: Set-up, Safe Work Practices, Personal Protective Equipment, and Clean-up. Recommended items to be included in the toolkits are listed below with the equipment and supplies you will need to teach the course.	
Test	This course includes a test. Trainers can obtain a copy of the test, test answers and guidance on how to administer the test from the National Lead Information Center at 1-800-424-LEAD.	

<sup>\*</sup> Note: Additional copies of *Lead Paint Safety: A Field Guide for Painting, Home Maintenance, and Renovation Work* can be obtained from the National Lead Information Center. Contact the Center at 1-800-424-LEAD or through its Web site: <a href="http://www.epa.gov/lead/nlic.htm">http://www.epa.gov/lead/nlic.htm</a>. Allow several weeks for delivery of the documents.

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### A Note to Instructors on How to Use This Curriculum

Classroom Supplies and Tools. To teach this course properly, the trainer needs standard classroom supplies as well as a number of special tools to demonstrate lead safe work practices and perform hands-on exercises. The table below provides a list of <u>recommended</u> supplies. We recognize that trainers may not be able to transport all the tools and materials listed below to a given training site, or may vary the supply list slightly depending on if the trainer is simulating an interior or exterior activity. Therefore the list serves only as a checklist of recommended items. The trainer should consult the lesson plan and the individual modules to determine which supplies are critical to the delivery that he/she has planned.

# **Recommended Classroom Supplies**

- Instructor manual
- Student manuals
- Overhead or LCD projector
- Course PowerPoint presentation or overhead transparencies
- Projection screen
- Blank overhead transparencies (1 box should be more than sufficient)
- Overhead transparency markers (for instructor and for students, at least one marker for each 4 students so that groups can write up answers to exercises and present them to the rest of the class)
- Blackboard, white board, or flip chart paper and stand
- Markers appropriate for blackboard, white board, or flip chart
- Masking tape
- Table tents with each student's name (a table tent is an 8½" x 11" sheet of heavy stock paper that is folded in half length-wise; the paper should be heavy enough that it will not flatten when set on the table after being folded)
- Heavy-duty disposal bag and duct tape
- Packet of sweetener
- Baby powder
- Broom and dust pan
- Optional: A laminated paint chip (1 centimeter square) on a cardboard display or in a sealed test tube

# **Recommended Supplies for Toolkits**

# **Set-up Toolkit**

- Heavy duty plastic sheeting
- Tack pad
- Rope and/or Barrier Tape (bright color preferable)
- Disposable mesh (e.g., burlap, cheesecloth, landscaping mesh)
- Small disposable towels or wipes
- Saw horses
- Staple gun
- Misting bottle
- Orange cones or other similar marker
- Tape (duct, painters, and masking)
- Utility knife or scissors
- Signs

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### A Note to Instructors on How to Use This Curriculum

# **Recommended Supplies for Toolkits (continued)**

# **Safe Work Practices Toolkit**

- Wet/dry sandpaper or sanding sponge
- · Heavy duty plastic protective sheeting
- HEPA exhaust attachments for power tools (sanders, grinders, planers, shavers)
- Mist bottle or pump sprayer
- Tape (duct, painters, and masking)
- Power washing equipment
- Chemical stripper
- · Utility knife or scissors
- Needle gun with HEPA exhaust
- Heat gun
- Heavy duty garbage bags
- Vacuum with HEPA filter

# Personal Protective Equipment (PPE) Toolkit

- Painter's hats
- N-100 disposable respirators or other appropriate respirator
- First aid kit
- Gloves
- Pre-moistened disposable wipes
- Safety glasses
- Coveralls (disposable or launderable)
- Disposable hand towels (e.g., paper towels)
- Ear protection (when using power tools)
- Disposable shoe covers

# **Clean-up Toolkit**

- Misting bottle
- Detergent
- Pump sprayer
- Vacuum with HEPA filter
- Two buckets or two-sided bucket
- Shovel and rake
- Heavy duty garbage bags
- Mop with disposable heads
- Tape (duct)
- Disposable hand towels (e.g., paper towels)

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# A Note to Instructors on How to Use This Curriculum

**Lesson Plans.** The three lesson plans on the following pages illustrate different ways to teach the course. Note that the trainer is free to borrow from these three lesson plans and create his/her own lesson plan that best fits the needs of a given audience and setting. However, to meet the teaching objectives of this course, the instructor should adhere to the guidelines about the time allotted to each subject.

The table below summarizes the choices available in each module. The lesson plans follow on the next pages.

Summary of Options		
Module	Standard components	Choices
Introduction	✓ Lecture ✓ Introductions of course participants	■ No choices
Module 1: Why Should I Be Concerned About Lead- Contaminated Dust?	✓ Lecture ✓ Exercise/Demonstration (See choices)	<ul> <li>□ Empty box</li> <li>□ Sweetener packet exercise</li> <li>□ Paper-based exercise on dust creation</li> </ul>
Module 2: Set Up Your Workspace to Contain Lead Dust	✓ Lecture ✓ Set-Up Exercise (See choices)	<ul> <li>□ Hands-on Set-Up Exercise</li> <li>□ Paper-based Set-Up Exercise</li> <li>□ Perform hands-on Set-up exercise, after Module 5, with hands-on exercise from Modules 3 and 4</li> </ul>
Module 3: Safe Work Practices	✓ Lecture ✓ Work Practices Exercise (See choices)	<ul> <li>□ Hands-on Safe Work Practices Exercise</li> <li>□ Paper-based Safe Work Practices Exercise</li> <li>□ Perform hands-on safe work practices exercise, after Module 5, with hands-on exercise from Modules 2 and 4</li> </ul>
Module 4: Clean-up and Check Your Work	<ul> <li>✓ Lecture</li> <li>✓ Gooseneck seal demonstration/exercise</li> <li>✓ Clearance demonstration</li> <li>✓ Clean-up Exercise (See choices)</li> </ul>	☐ Hands-on Clean-Up Exercise ☐ Perform hands-on clean-up exercise, after Module 5, with hands-on exercise from Modules 2 and 3
Module 5: Planning the Job	✓ Exercise and checklist	■ No choices
Additional Activities	✓ After Module 5 is complete, you may have additional activities(See choices)	<ul><li>□ Perform hands-on exercises from Modules 2, 3, and 4 as one exercise</li><li>□ Review topics</li></ul>
Test	✓ Test	☐ Test☐ Grade and review test☐

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### A Note to Instructors on How to Use This Curriculum

Lesson Plan 1: Hands-On Activities Included in Each Module		
Introduction 30 minutes		
Activity: Introductions	Koy magagaga: Why are we here?	

- Activity: Introductions
- > Why are we here?
- What can you do?
- Jobs where Lead Safety is Important
- > This Course
- > Training Manual Overview
- Course Agenda

Key message: Why are we here?
Because workers have a role to play in preventing lead poisoning.

Notes: This module is straightforward. Move quickly through the slides. Emphasize that this training applies to work in pre-1978 housing and additional precautions are needed when a property receives Federal, state, or local funds.

<u>Preparing for this module</u>: Review the class list before the session so you know something about your audience.

# Module 1: Why Should I Be Concerned About Lead Dust?

1 hour

- > Activity: How do we create dust
- ➤ A little dust goes a long way
- > Activity: Dust wipe demonstration
- Why is dust a problem?
- Health risks
- What is lead-based paint?
- ➤ How widespread is LBP?
- What is being done?
- > How do I work lead safe

<u>Key message</u>: Dust is the problem and contractors make dust. By working lead safe, you can make a difference.

<u>Notes</u>: This module involves an upfront exercise and then slides.

- Exercise: Sweetener packet demo or paper-based exercise (30 minutes).
- > Slides (30 minutes)

<u>Preparing for this module</u>: Have materials ready for the exercise and demonstration.

<u>Materials needed:</u> – sweetener packet, dustpan, broom, dust wipe kit.

Options: Trainer can replace the interactive sweetener packet exercise with a paper-based exercise in which participants rate different activities by how much dust they create. See Appendix 7 for Optional Exercise #1. Note: Instructor must use one of these two exercises.

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### A Note to Instructors on How to Use This Curriculum

# **Lesson Plan 1 (Continued)**

# Module 2: Set Up your Workspace to Contain Lead Dust

1 hour

- What is containment?
- > Interior containment
- Exterior containment
- Special considerations for high dust jobs
- > Activity: Hands-on set-up exercise

Key message: Keep the dust in the work area and make it easier to clean up.

Notes: Slides are followed by an exercise.

- > Slides: 30 minutes
- Hands-On Exercise: Students set up containment in a small area.
   They lay plastic and secure it.
   Trainer demonstrates how to do a door flap. (30 minutes)

<u>Preparing for this module</u>: Prepare materials for hands-on exercise and identify appropriate locations for groups to work in.

<u>Materials needed:</u> See Set-Up Toolkit for list of materials needed.

Option: The trainer can replace the handson exercise on set-up with a paper-based exercise in which students look at pictures of worksites and identify good and bad practices. See Appendix 7 for Optional Exercise #2. The trainer must use one of these two exercises.

# **Module 3: Safe Work Practices**

1 hour

- High risk practices
- Safe work practices
- Personal protection
- Control the spread of dust
- Activity: Hands-on work practices exercise

<u>Key Message</u>: These practices are not so different from what you already do.

Notes: Slides are followed by an exercise

- > Slides: 30 minutes
- ➤ Hands-On Exercise: 30 minutes

<u>Preparing for this module</u>: Prepare a list of tasks for participants to work on and the materials for hands-on exercise.

<u>Materials needed:</u> Traditional tools and lead safety tools listed in the Work Toolkit.

Option: The trainer can replace the handson exercise with a paper-based exercise. See Appendix 7 for Optional Exercise #3. The trainer must use one of these two exercises.

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# A Note to Instructors on How to Use This Curriculum

Lesson Plan 1 (Continued)		
Module 4: Clean up and check your worl	t 1 hour	
<ul> <li>What is effective clean up?</li> <li>Clean-up tool kit</li> <li>Interior clean up</li> <li>Exterior clean-up</li> <li>Checking your work</li> <li>Safe disposal (optional demo or exercise)</li> <li>Activity: Hands on clean-up exercise</li> <li>Activity: Clearance demonstration</li> </ul>	<ul> <li>Key message: Clean up right. Use wet mops and HEPA vacuums. Traditional methods don't do the job.</li> <li>Notes: Slides followed by an exercise         <ul> <li>Slides (30 minutes)</li> <li>Hands-on Exercise (30 minutes)</li> </ul> </li> <li>Preparing for this module: Prepare materials for hands-on exercise and clearance demonstration.</li> <li>Materials needed: Dust wipe sampling materials and tools listed in the Clean-Up toolkit.</li> <li>Options: The trainer can demonstrate</li> </ul>	
	gooseneck sealing or have participants do it themselves. Have necessary materials ready.	
Module 5: Planning the Job	30 minutes	
<ul> <li>Evaluate the Property</li> <li>Evaluate the Work</li> <li>Schedule the Work</li> </ul>	Key message: Plan before you start the work.	
Choose the right tools and methods	Notes: This module is very interactive. A short scenario precedes each topic. Participants brainstorm questions before discussing the material. They also complete a planning checklist.  Preparing for this module: Review materials in advance so you are familiar with the scenarios and the checklist.	
Optional Review Session	30 minutes	
> Review key topics and rules for test		
Test	60 minutes	
<ul> <li>Administer the test (30 minutes)</li> <li>Review correct answers (30 minutes)</li> </ul>	Call 1-800-424-LEAD to receive a copy of the test, the answers, and guidance on giving and grading the test.	
Total Instructional Time	6.5 hours	

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# A Note to Instructors on How to Use This Curriculum

Lesson Plan #2: Hands-on Exercises Combined into One Unit		
Introduction	30 minutes	
<ul> <li>Activity: Introductions</li> <li>Why are we here?</li> <li>What can you do?</li> <li>Jobs where Lead Safety is</li> </ul>	Key message: Why are we here? Because workers have a role to play in fighting lead poisoning.	
Important  ➤ This Course  ➤ Training Manual Overview  ➤ Course Agenda	Notes: This module is straightforward. Move quickly through the slides.  Preparing for this module: Review the class list before the session so you know	
Module 1: Why should I be concerned ab	about your audience.  out Lead Dust 1 hour	
Activity: How do we create dust A little dust goes a long way Activity: Dust wipe demonstration Why is dust a problem? Health risks What is lead-based paint? How widespread is LBP? What is being done? How do I work lead safe	Key message: Dust is the problem and contractors make dust. By working lead safe, you can make a difference.  Notes: This module involves an upfront exercise and then slides.  Exercise: Sweetener packet demo or paper-based exercise (30 minutes).  Slides (30 minutes)  Preparing for this module: Have materials ready for the exercise and demonstration.  Materials needed: – sweetener packet, dustpan, broom, dust wipe kit.  Options: Trainer can replace the hands-on sweetener packet exercise with a paper-based exercise in which participants rate different activities by how much dust they create. See Appendix 7 for Optional Exercise #1. Note: Instructor must use at least one of the exercises.	
Module 2: Set Up your Workspace to Contain Lead Dust 30 minutes - 1 hour		
<ul> <li>What is containment?</li> <li>Interior containment</li> <li>Exterior containment</li> <li>Special considerations for high dust jobs</li> <li>Activity: Optional Paper-Based Set-Up Exercise</li> </ul>	Key message: Keep the dust in the work area and make it easier to clean up.  Notes: Exercise is optional.  Slides: 30 minutes  Optional paper-based set-up exercise: 30 minutes  Option: The trainer may add the paper-based Exercise #2 provided in Appendix 7 if time permits.	

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# A Note to Instructors on How to Use This Curriculum

Lesson Plan #2: Hands-on Exercises Combined into One Unit (Continued)		
Module 3: Safe Work Practices	30 minutes - 1 hour	
<ul><li>High risk practices</li><li>Safe work practices</li><li>Personal protection</li></ul>	Key Message: These practices are not so different from what you already do.	
<ul> <li>Control the spread of dust</li> <li>Activity: Optional paper-based exercise</li> </ul>	Notes: Exercise is optional  ➤ Slides: 30 minutes  ➤ Optional Exercise: 30 minutes	
	Option: The trainer may use the paper-based Exercise #3 provided in Appendix 7 if time permits.	
Module 4: Clean up and check your work	30 minutes	
<ul> <li>What is effective clean up?</li> <li>Clean-up tool kit</li> <li>Interior clean up</li> <li>Exterior clean-up</li> </ul>	Key message: Clean up right. Use wet mops and HEPA vacuums. Traditional methods don't do the job.	
<ul> <li>Checking your work</li> <li>Safe disposal (demo/exercise)</li> </ul>	Notes: This is a 30-minute lecture.	
Clearance demonstration	<u>Preparing for this module:</u> Have materials ready to demonstrate gooseneck sealing and dust wipe sampling.	
	Option: The trainer can demonstrate gooseneck sealing or have participants practice it.	
Module 5: Planning the Job	30 minutes	
<ul> <li>Evaluate the Property</li> <li>Evaluate the Work</li> <li>Schedule the Work</li> </ul>	Key message: Plan before you start the work.	
➤ Choose the right tools and methods	Notes: This module is very interactive. A short scenario precedes each topic. Participants brainstorm questions before discussing the material. They also complete a planning checklist.  Preparing for this module: Review materials in advance so you are familiar with the scenarios and the checklist.	

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# A Note to Instructors on How to Use This Curriculum

Lesson Plan #2: Hands-on Exercises Combined into One Unit (Continued)	
Hands-On Activities	90 minutes
<ul><li>Set up the worksite</li><li>Work Practices</li><li>Clean-up</li></ul>	Key message: Practice what you have learned.
order ap	Notes: This section is completely handson.
	Preparing for this section: Use the hands- on exercises that are included in Modules 2, 3, and 4 to run this three-part hands-on exercise. These include:  > Slides 2-18 and 2-19  > Slides 3-15 and 3-16  > Slides 4-13 and 4-14  Make sure you have an appropriate facility, all necessary tools and equipment (see Toolkits) and have read carefully through each of the exercises.
Optional Review Session	30 minutes
Review key topics and rules for test	
Test	60 minutes
<ul> <li>Administer the test (30 minutes)</li> <li>Review correct answers (30 minutes)</li> </ul>	Call 1-800-424-LEAD to receive a copy of the test, the answers, and guidance on giving and grading the test.
Total Instructional Time 6.5 – 7.5 hours*	
* <b>Note:</b> The total instructional time will depend on the number of exercises done during modules 3 – 5 and the specific activities chosen for hands on activities. It would be extremely difficult to do all the activities listed in this lesson plan in one daylong course.	

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# A Note to Instructors on How to Use This Curriculum

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Lesson Plan #3: Paper-Based Exercises		
Introduction	30 minutes	
<ul> <li>Activity: Introductions</li> <li>Why are we here?</li> <li>What can you do?</li> <li>Jobs where Lead Safety is Important</li> <li>This Course</li> <li>Training Manual Overview</li> <li>Course Agenda</li> </ul>	Key message: Why are we here? Because workers have a role to play in preventing lead poisoning.  Notes: This module is straightforward. Move quickly through the slides. Emphasize that this training applies to work in pre-1978 housing and additional precautions are needed when a property receives Federal, state, or local funds.  Preparing for this module: Review the	
	class list before the session so you know something about your audience.	
Module 1: Why Should I be Concerned ab	out Lead Dust? 1 hour	
<ul> <li>Activity: How do we create dust</li> <li>A little dust goes a long way</li> <li>Activity: Dust wipe demonstration</li> <li>Why is dust a problem?</li> <li>Health risks</li> <li>What is lead-based paint?</li> <li>How widespread is LBP?</li> <li>What is being done?</li> <li>How do I work lead safe</li> </ul>	<ul> <li>Key message: Dust is the problem and contractors make dust. By working lead safe, you can make a difference.</li> <li>Notes: This module involves an upfront exercise and then slides.         <ul> <li>Exercise: Sweetener packet demo or paper-based exercise (30 minutes).</li> <li>Slides (30 minutes)</li> </ul> </li> <li>Preparing for this module: Have materials ready for the exercise and demonstration.</li> <li>Materials needed: – sweetener packet, dustpan, broom, dust wipe kit.</li> <li>Options: Trainer can replace the hands-on sweetener packet exercise with a paper-based exercise in which participants rate different activities by how much dust they create. See Appendix 7 for Optional</li> </ul>	

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# A Note to Instructors on How to Use This Curriculum

Lesson Plan #3: Paper-Based Exercises (Continued)		
Module 2: Set Up your Workspace to Contain Lead Dust 1 hour		
<ul> <li>What is containment?</li> <li>Interior containment</li> <li>Exterior containment</li> <li>Special considerations for high dust jobs</li> <li>Activity: Paper-based set-up exercise (see Appendix 7, Exercise 2)</li> </ul>	<ul> <li>Key message: Keep the dust in the work area and make it easier to clean up.</li> <li>Notes: This module walks through the steps needed to contain an area, inside or outside. Then, it allows students to apply what they learned.</li> <li>Slides: 30 minutes</li> <li>Exercise: Students look at pictures and identify good and bad containment practices (30 minutes)</li> </ul>	
Module 3: Safe Work Practices 1 hour		
<ul> <li>High risk practices</li> <li>Safe work practices</li> <li>Personal protection</li> <li>Control the spread of dust</li> <li>Activity: Paper-based work practices exercise (See Appendix 7 – Exercise 3)</li> </ul>	<ul> <li>Key Message: These practices are not so different from what you already do.</li> <li>Notes: Slides are followed by an exercise → Slides: 30 minutes</li> <li>➤ Exercise: 30 minutes</li> </ul>	
Module 4: Clean up and check your work	30 minutes	
<ul> <li>What is effective clean up?</li> <li>Clean-up tool kit</li> <li>Interior clean up</li> <li>Exterior clean-up</li> <li>Checking your work</li> <li>Safe disposal (optional demo or exercise)</li> <li>Activity: Clearance demonstration</li> </ul>	Key message: Clean up right. Use wet mops and HEPA vacuums. Traditional methods don't do the job.  Notes: This module has no exercise but it does include a demonstration of dust sampling.  Preparing for this module: Prepare materials for dust wipe demonstration.  Materials needed: Dust wipe sampling materials.  Option: The trainer can demonstrate gooseneck sealing or have participants practice it.	

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# A Note to Instructors on How to Use This Curriculum

Lesson Plan #3: Paper-Based Exercises (Continued)	
Module 5: Planning the Job	30 minutes
<ul> <li>Evaluate the Property</li> <li>Evaluate the Work</li> <li>Schedule the Work</li> <li>Choose the right tools and methods</li> </ul>	Key message: Plan before you start the work.  Notes: This module is very interactive. A short scenario precedes each topic. Participants brainstorm questions before discussing the material. They also complete a planning checklist.  Preparing for this module: Review materials in advance so you are familiar with the scenarios and the checklist.
Optional Review Session	30 minutes
Review key topics and rules for test	
Test 60 minutes	
<ul> <li>Administer the test (30 minutes)</li> <li>Review correct answers (30 minutes)</li> </ul>	Call 1-800-424-LEAD to receive a copy of the test, the answers, and guidance on giving and grading the test.
Total Instructional Time 6 hours	

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### A Note to Instructors on How to Use This Curriculum

**Guidance on Conducting Hands-On Activities.** Hands-on training is not a required element of this curriculum. However, because hands-on training increases retention, trainers are encouraged to use the hands-on training exercises provided if conditions allow. If hands-on activities are selected, it is recommended that trainers consider the following factors when planning for and conducting the hands-on training segments:

- Have available the right kind of supplies. Use the lists provided in this section to plan
  appropriately and bring the right sorts of supplies to the training site. For example,
  household garbage bags are not equivalent to heavy duty disposal bags.
- Have supplies in adequate quantities. Depending on how you structure the activity, you may
  need varying number of supplies. For example, if the trainer demonstrates how to seal and
  gooseneck a disposal bag, you will use one bag. If each student practices this procedure,
  the training will consume a larger number of bags. Plan ahead so you have enough
  supplies.
- Have an adequate number of instructors. Depending on the class size, some hands-on activities require more than one instructor, to properly supervise and provide feedback.

  Make sure you have enough trainers available to deliver the course to the number of students you teach. Note: The training can be structured so that extra trainers are available only during the hands-on activities.
- Make sure your equipment is clean and in working order before the class. Test your
  equipment before the training. Trainers should not conduct training with lead-contaminated
  equipment or unclean respirators, if respirators are inspected or otherwise used. Trainers'
  policy about whether participants will use chemicals or respiratory protection during handson training is not dictated by this curriculum, but should be decided by the training provider
  based on its experience and local requirements, if applicable.
- The use of actual lead-based paint for training purposes is not recommended. Participants
  are in your class to learn the skills necessary to work around lead-based paint properly.
  Should they make a procedural error during training, they should not be placed at risk of
  being exposed to lead.
- <u>Carefully estimate the time you will need to conduct the hands-on exercises</u>. This
  curriculum contains a large amount of course content. Be mindful of class size and time
  constraints when selecting a hands-on exercise.
- The activities you select must be appropriate for your training facility and the facility requirements. Some locations prohibit the use of water inside for training. If you don't know the facility requirements, ask about them.
- Use the skills assessment checklist to coach participants through the activity. See Appendix 9 for a Skills Assessment Checklist for the hands on activities planned for modules 2, 3, and 4. The checklists list specific tasks that each participant should perform correctly during the hands on activity to reinforce proper safe work practices.

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# **Introduction and Welcome Instructor Notes**

# Slide 1: Lead Safety for Remodeling, Repair, and Painting

- This is the course title slide.
- Welcome everyone and introduce the course title.
- Be sure to verify that participants in the classroom intended to take this course and not some other course.







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# **Introduction and Welcome Instructor Notes**

# Slide 2: Introduction and Welcome

- This is the title slide for this module.
- Introduce yourself. Write your name on the blackboard, whiteboard, flip chart paper or blank overhead transparency.
- Highlight your background and experience. Your goal here is to demonstrate to the participants in the class that you have the qualifications to present this material.

**Overview of this module**: The table below summarizes the content and teaching methods for this module. This is for your reference. Do not cover this with the participants.

Introduction	30 minutes
<ul> <li>Activity: Introductions</li> <li>Why are we here?</li> <li>What can you do?</li> <li>Jobs where Lead Safety is Important</li> <li>This Course</li> <li>Training Manual Overview</li> <li>Course Agenda</li> </ul>	Key message: Why are we here? Because workers have a role to play in preventing lead poisoning.  Notes: This module is straightforward. Move quickly through the slides. Emphasize that this training applies to work in pre-1978 housing and additional precautions are needed when a property receives Federal, state, or local funds.  Preparing for this module: Review the class list before the session so you know something about your audience.



# **Introduction and Welcome**





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### **Introduction and Welcome Instructor Notes**

# Slide 3: Introduction Overview

- This Introduction covers the bulleted list of topics on the slide. Briefly review this list with the
  class participants. Do not go into detail about each of the topics because you will be
  covering the details when you present each of the following slides in the module. Then
  describe the meeting facility and review logistics with participants.
- Meeting facility and logistics:
  - Provide logistical information including a brief overview of the training schedule for the day, including breaks, lunch, etc.
  - Indicate where the emergency exits, restrooms and phones can be found.
  - Discuss ground rules, as necessary. Examples of ground rules include:
    - ✓ Come back from breaks on time so that the class can finish at the designated hour.
    - ✓ Raise hands to be recognized.

# **Introduction Overview**

- **♦ Introductions**
- **♦** Course objectives
- **♦** Course manual
- **♦** Course agenda





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### **Introduction and Welcome Instructor Notes**

### Slide 4: Introductions

- Ask the participants to introduce themselves in less than one minute per person. Ask them to state:
  - Name:
  - · Company they work for;
  - Whether they currently use any lead-safe work practices;
  - What they want to learn in the course.
- You may want to capture on a whiteboard, flip chart, or blank transparency the information about what each person wants to learn during the course so that you can refer back to it when you cover those issues during the course.
- Remember, if each person speaks for one minute and you have 15 people in the class, introductions will take at least 15 minutes of your allotted 30 minutes for the introduction and welcome. Especially if you have class with more than 10 participants, ask them to be as brief as possible while still providing the information requested.

# **Introductions**

- ♦ In less than 1 minute please tell us:
  - Your name
  - Company you work for
  - What you want to learn in this course
  - Do you currently use lead-safe work practices?





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# **Introduction and Welcome Instructor Notes**

# Slide 5: Why Are We Here?

- This slide highlights a key message. To motivate the participants to learn the material, you must impress on them the role that they play in preventing lead poisoning. They are here because they can actually make a difference.
- Also emphasize that what they learn in this course protects them and their children, as well as their clients, from potential poisoning.

# Why are we here?

- ◆ To help prevent lead poisoning!
  - Renovation, repair, and painting activities create dust
  - In older homes, this dust can contain lead
  - Lead is toxic to you, your kids, and your clients
- ◆ By using the right work practices, you can help protect against lead poisoning
- **♦** This course shows you how





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# Why are we here?

- Many commonly used work practices generate a lot of dust.
- Practical changes in work practices can minimize and contain dust.
- Minimizing and containing dust saves clean-up time and customers value cleaner, less dusty job sites.

# **Introduction and Welcome Instructor Notes**

# Slide 6: What Can You Do?

- This slide summarizes five actions contractors can take to prevent lead poisoning. Each of these will be discussed in detail during the course.
- At this point, simply read through them and emphasize that the learning objectives for this course are to teach them these five things.

# What can you do?

- Contain dust in the work area
- ◆ Minimize the dust created
- ◆ Clean up completely
- **♦ Dispose of waste safely**
- ◆ Determine if special requirements apply to your job





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# What can you do?

There are five key steps to take during work that will help reduce the risk of lead poisoning. You should plan your job so all of these steps can be performed properly.

- 1. **Contain the dust**. You will learn how to close off the area you are working in to keep the dust inside the work area and away from the rest of the house. (We'll talk about this in detail in Module 2.)
- **2. Minimize the dust.** You will also learn about tools and techniques for creating less dust while you work. (Module 3.)
- 3. Clean-up. This course will teach you how to clean your work area so that no dust is left behind. (Module 4)
- **4. Dispose of waste.** This course will tell you how to properly dispose of waste from jobs with lead waste (Module 4).
- **5. Determine special requirements.** Some jobs require that you use the work practices in this course. Other jobs require additional training. See the next slide for more detail.

### **Introduction and Welcome Instructor Notes**

# Slide 7: Jobs Where Lead Safety Is Important

- This slide shows the three types of jobs a contractor might do and demonstrates where safe work practices are appropriate or required.
- Emphasize that we are talking only about pre-78 housing.
- Also point out that these practices are required in some housing and that this course will teach them to recognize when the practice are required.
- Define abatement and emphasize that this course does not teach or qualify anyone to do abatement. To do abatement, one must take another course and obtain a license.
- Note: These practices are also recommended (and sometimes required) in child-occupied facilities but this course focuses on residential properties.

# Jobs Where Lead Safety Is Important PRE-1978 HOUSING Remodeling, Repairs, and Painting in: Private Housing Housing Receiving Government Assistance Abatement in Any Housing Additional Training Needed Additional Training Needed

# There are 3 types of jobs where Lead Safety is important

- Jobs being done in pre-78 private housing.
- Jobs in pre-78 housing that receives Federal, State, local, or tribal assistance. There may be specific
  requirements that apply to these jobs that are important to know when planning the work. To find out about if
  there are requirements and what must be done to meet them, ask for guidance from the public agency
  providing the housing assistance
- Housing where lead abatement is required. Abatement refers to work that is being done specifically with the
  intent to permanently control known lead-based paint. When the work to be done involves lead abatement,
  there are specific requirements, qualifications, and licensing needed to properly perform this work. Additional
  training beyond this course is needed and the supervisor must be certified. If a project requires abatement,
  advise the property owner that he or she will need an abatement firm to perform those parts of the job.

Note: The lead safe work practices taught in this course are also appropriate for any child-occupied facilities, such as schools and day care centers.

# **Introduction and Welcome Instructor Notes**

# Slide 8: This Course...

- The main point of this slide is to inform participants that completing the training is a way to be distinctive in the marketplace and bring added value to clients.
- It also qualifies them to work on jobs for Federally assisted housing where lead safe work
  practices are required. They must pass the test at the end of this course and keep their
  results to demonstrate that they are qualified.
- This course is not an abatement course and does not qualify participants to conduct abatement activities, nor does it meet OSHA requirements. Note that employers are responsible for complying with any OSHA requirements.

# This Course...

- **♦ Meets HUD requirements**
- **♦** Demonstrates your commitment to safety

# BUT,

- Is not an abatement course
- ◆ Does not satisfy OSHA training requirements
- May not satisfy State, local, or tribal training requirements

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# The Value of this Training

- This course meets HUD requirements for interim controls / lead safe work practices training.
- Completing this training demonstrates your company's competence to prospective clients and can be a marketing advantage that distinguishes your company from the competition.

# Lead abatement training

• Lead abatement refers to work that is done for the specific purpose of permanently removing lead-based paint hazards from a home. This type of work requires special training that is not provided by this course.

# **OSHA**

• OSHA has training requirements for workers that employers should be aware of. For more information on OSHA requirements, visit www.osha.gov/Publications/osha3142.pdf.

# State, Local, and Tribal Requirements

 Many locatlities have their own lead-based paint requirements, including specific training and certification requirements. Check with your State, local, or tribal housing and environmental agencies to obtain information about any requirements.

# **Introduction and Welcome Instructor Notes**

# Slide 9: Training Manual Overview

- Walk participants through the five modules by highlighting the module title and length of time needed to cover the material.
- Emphasize that the course is intended to be interactive with discussions and exercises to practice some of the activities discussed in the modules.
- · Highlight each of the appendices.
- Take the time to have participants thumb through the Field Guide in Appendix 8.
   Emphasize that they can take it on-site to help provide guidance on working in a lead-safe manner and that the guide contains illustrations of suggested methods for reducing, containing, and cleaning up dust in work areas.

# **Training Manual Overview**

- Five modules
- ♦ Interactive and hands-on exercises
- Appendices
- ◆ Lead Paint Safety Field Guide





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# **Modules**

In addition to this Introduction and Welcome, there are five modules in this course:

- Module 1 Why Should I Be Concerned About Lead Dust? (1 hour)
- Module 2 Set-up Your Work Space to Contain Lead Dust (1 hour)
- Module 3 Safe Work Practices (1 hour)
- Module 4 clean up and Check Your Work (1 hour)
- Module 5 Planning the Work (1/2 hour)

### **Activities and Exercises**

• The course includes activities and exercises to help you identify methods of reducing the amount of dust you create, and containing and cleaning up the dust you created. Many of the exercises and activities take place in small groups, so you will have an opportunity to share your experiences and ideas with others in the class.

# **Appendices**

 As indicated in the Table of Contents, this manual has several appendices that provide extra information that will help contractors.

### Field Guide

This manual also provides you with a copy of the Lead-Based Paint Safety Field Guide in Appendix 8. This handy
Field Guide is easy to use and has illustrations of suggested methods for reducing, containing, and cleaning up
dust in work areas. Take it with you to work.

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# **Introduction and Welcome Instructor Notes**

# Slide 10: Course Agenda

- The agenda on the slide does not contain times (because the training could be offered over several days), so you may want to write the agenda (with times) on a flip chart, blackboard or whiteboard so that participants can refer to it throughout the course, or you could make a hardcopy of the agenda and distribute it to participants.
- Walk participants through the agenda for the training.
- Mention the test.
- The Notes to the Instructor has a proposed course schedule and lesson plans to help you plan your schedule.

# **Course Agenda**

- ◆ Introduction and welcome
- ♦ Module 1
- ◆ Break
- ♦ Module 2
- ◆ Break
- ♦ Module 3

- ◆ Break
- ♦ Module 4
- ♦ Module 5
- **♦** Test
- **♦** Adjourn





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